

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

SOUTHERN CALIFORNIA NATIVE PLANTS & SEEDS : FALL 1949 & SPRING 1950

Collector & Distributor: Mrs. E. W. Cisler.

All native material is collected and handled by me. Botanic accuracy is particularly stressed. Most items are from widely differing parts of San Diego County, from coastal bluffs, intermediate elevations, to forested or exposed mountain tops of over 6000', which have already felt the bite of cold and snow in mid-October. Some are from the western edge of the Col. Desert, a sheer drop of thousands of feet into another climate. For this reason there are many different types of habitat, either needed or tolerated. Neutral soil for the majority will hold, but not one can thrive without extra good drainage below and about the crowns. Gravel, sand and leafmold only enrichment. Avoid use of artificial fertilizers, at least the first year, to avoid rot.

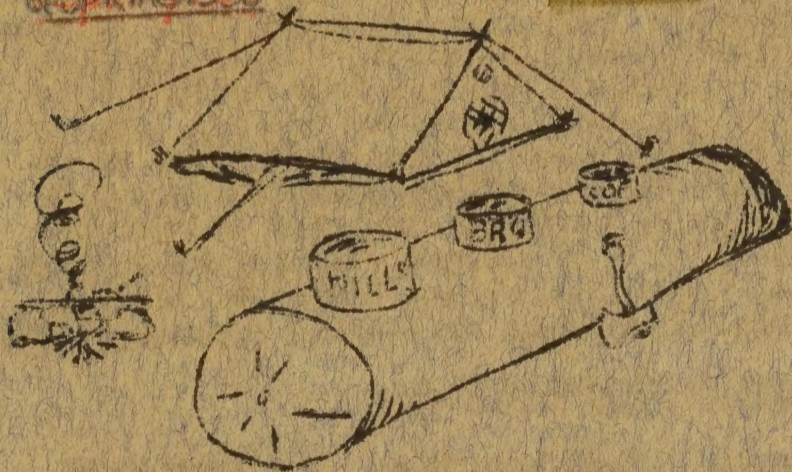
Many natives originally from So. Calif. are not included here, as they can readily be found as standard items in many nurseries; but anything in my collecting area is gladly furnished on special request. Some are coming to you for the first time, for stirring up your Forty-niner pioneering spirit. Only those first liked and desired by myself are recommended. Some other natives have not been available for many years from this County; so will prove new to many, if not "old acquaintance." A few kinds have become lost, perhaps completely, due to ever expanding communities or over-grazing. My idea of conservation consists literally of snatching endemic bulbs and others from under blades of bulldozers and ploughs that are scraping more miles of superhighways and cropping dry lakebottoms; or from hoof and maw of wickedly staring steers. In two western states have been near arrest on suspicion of collecting beefsteaks or venison rather than violet seeds! But a hearty welcome follows disclosure of my innocence-of gunplay.

It is not fair to judge hardiness or adaptability of any wild plant merely on the basis of its natural habitat. Yet a few small growers occasionally give out sweeping statements on the subject that are misleading to the average gardener, and prevent wider enjoyment of delightful newcomers. One writer recently stated that all wildlings are difficult to establish. This is utterly ridiculous. In fact, a large percentage of common favorites remain as when introduced from their wild haunts; most being gratefully improved simply thru less competition. Let us not be beaten down by the prejudices of a few who are hardly overminded on material which is still unsuccessful or even untried by themselves. It takes more than one trial, one place, one gardener.

My authority for identification here has been P. A. Munz' MANUAL OF SOUTHERN CALIFORNIA BOTANY, with Dr. Munz' gracious personal help on a few puzzlers. Additional descriptive information gleaned variously. A knowing friend observed truthfully that my thoroughness in combing new territory is like that of a hungry goat!

FALL 1949 : SEEDS of SO. CALIFORNIA NATIVE PLANTS, including PENSTEMONS.

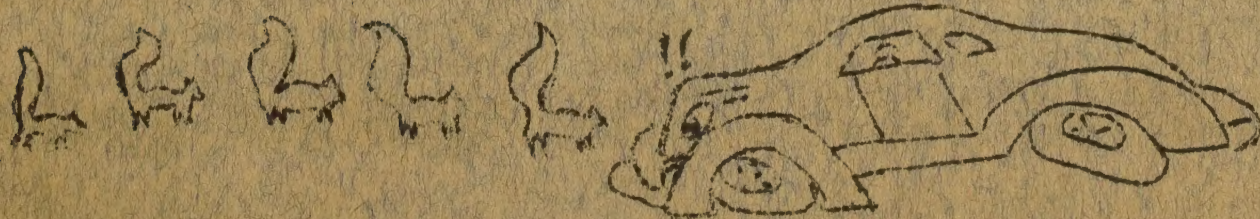
& SPRING 1950



RALPH R. SHAW, Librarian,
Library, U. S. Dept. of Agriculture,
Washington 25, D. C.

MRS. E. W. CISLER, 1777 MORENA BLVD., SAN DIEGO, 10, CALIF.

Native SEEDS are my SPECIALTY!





All of this material is most useful in similar dry-summer regions of the West. Many proved shrubs and perennials are adaptable elsewhere, either hardy or rain tolerant. Much information is had by use of your library's native plant books and current catalogs of native plant growers.

In the West seeds of annuals are best sown at start of the rainy season, or if to be watered, any time to April. In the East sow while the soil is cool. Other types according to facilities or methods you use to control and protect. Boiling water will rouse some hardcoated ones; but each wants to go its own way like the bean runner.

With a few exceptions, bulbs and dormant roots can be planted anytime the ground is not frozen, from fall thru open spells of winter. Because of belated listmaking some seeds are deleted or show shortages due to unexpected demands of wholesale amounts, or too thoro reaping by the smarter varmints when timing failed. A few more were found just too late for seed until new crop, but listed for your reserving. Desert seeds ripen quite early and rapidly; so should be ready for spring planting at least. All material is sent as available, meaning that part of an order might be delayed, for a number of reasons. Most are distant, so like items are combined and orders filled in order of receiving. It is impossible to stock any fresh material.

Seeds are postpaid. For heavier items will ask for return of postage.
SMALL PKTS: 20¢. TRADE PKTS: 50¢. WHOLESALE AMTS. QUOTED on request.

SO. CALIF. NATIVE SHRUBS & TREES.

- ACACIA FARNESIANA Fragrant A. Fast growing shrub to 10'; clustered 1" hds of yellow flrs. Sun & moisture; endures cold to 20°. Soak seeds 48 hrs. in hot water.
- ARTOSTAPHYLOS BICOLOR Manzanita of S. D. Co. quite different lvs., dark green, held horizontally; pink flrs, red calyx, attractive, from Dec. on. Shiny red frts.
- " GLANDULOSA (Eastwood) Usually very blue-grey foliage; smooth reddish "apples".
- " GLAUCA Big-berry M. Favorite for stiff, blue, vertical lvs., brownish, sticky frts.
- " DRUPACEA High alt. sp. Hairy, bluish lvs., showy bunches dangling, sticky red frts.
- " PUNGENS Smooth green lvs, dull green; pretty red-cheeked white frts, later brown.
- " TOMENTOSA Woolly M. Grey-green lvs; dainty pale pink flrs. Often quite prostrate.
- ARTEMISIA TRIDENTATA var. ANGUSTIFOLIA Sagebrush. Fragrant, grey-white shrub which typifies much of the West; near desert needs. A bit narrower lvs! in our form.
- AZALEA OCCIDENTALIS Western A. Most desirable tall shrub for moist shade; fragrant even to seedpods; large clusters of white flrs with gold blotch upper petal, 2". Deciduous 4" lvs. Late and long blooming season, June to Aug. From above 5000'.
- BERBERIS (MAHONIA) DICTYOTA Differs from others; its beauty mainly the very blue prickly, dense foliage. Averages 1-1 1/2' on open, high mt. ridges. Rts. only, 3-11.
- CALLIANDRA ERIOPHYLLA Fairyduster. Small, compact shrub from the desert; adaptable and almost everblooming; showy purplish-red flrs, long-exserted stamens, dense hds.
- CEANOTHUS AUSTRORONTANUS Ouyama Lilac. Low, spreading; tiny shining lvs; bright blue flrs along the branches. Very local. Seed, 20¢ & plants, 12-15" spread, 1 B.B.
- " CRASSIFOLIUS Thick-ldv L. Greyish-green, neat, prickled lvs; early white flrs.
- " DIVARICATUS Spreading L. Whitish bark; smooth greyish lvs, large panicles 1. blues.
- " INTEGERRIMUS Deerbrush. Late flowering on mt. summits; showy white racemes on long flexible smooth branches; clean-looking green, thinnish lvs. Only plants, 50¢.
- " ORCUTII S. D. sp. found too late for seed this yr. Smoky blue flrs, in panicles.
- " TOMENTOSUS OLIVACEUS Woolly-leaf L. Various blue tones in compact racemes. Seed '50.
- " VERRUCCOSUS Wartystem L. Earliest to flr, beginning in Dec. Clouds of white in axillary bunches; neat thick lvs., roundish, dark green; often notched, heart-shaped.
- CERCIDIUM TORREYANUM Palo Verde. Small tree of our deserts, dainty of flr and foliage; drooping lacy lvs mingled with small yellow, orchid-like flrs. Good as specimen.
- CERCIDIUM SP. from Mexico, as yet not identified; similar to above; pods larger & most attractive, pink-streaked tan. Pods with seeds left in, offered for ornament.
- CERCIS OCCIDENTALIS Western Redbud. Somewhat like popular Eastern R. Small tree covered early spring before lvs. with pink-purple flrs. Round, notched lvs, red in fall.
- ONEORIDIUM DUMOSUM Wild Orange. Little S. D. endemic a favorite of mine; dry, coastal bluffs mostly; pleasantly aromatic; small linear lvs; early winter brings white, pink-tinged sweet flrs, reddish buds; often reddish-yellow frts (later black) intermingled with sweet flr bouquets; shapely; easy to grow, and so very attractive.
- CHILOPSIS LINEARIS Desert or Flowering Willow. Only lvs. like willow; gorgeous big pale pink flrs. like Catalpa kinfolk; foot long skinny "cigars"; easily grown.
- CROSSOSOMA BIGELOVI Crabapple Bush. Low, compact desert shrub. White to rose flrs. to nearly 1" dia. Woody capsules also flower-like, and persistent. Want some seed saved?
- DALEA SCHOTTII Indigo Bush. 3-5' intricate shrub; linear lvs; 1" long flrs. in terminal racemes, blue, orange calyx; funny little speckled pods. Desert. Next seed.
- ERICAMERIA (APLOPAPPUS) CUNEATA SPATHULATA Of Golden Fleece group; natural rockgarden 6000' low, spreading mats roundish evergr. lvs; yellow tufts on 2-3" stems.
- ERIODICTYON CRASSIFOLIUM Yerba Santa. Unusually desirable for a tall shrub in dry, sunny soil, for lovely grey-plush foliage; lavender flrs. coiled racemes.
- " TRICHOCLALYX LANATUM From high and drier places away from the coast; lvs dark green sticky above, white-wooly below. I think at its best when a 15" dwarf, high ridges.
- FOUQUERIA SPLENDENS Ocotillo. Coachman's Whip. Unique tall shrub of Col Desert; woody twisted stems, branched from base, to 15'; coral-red flr tips spring; white seeds!
- GARRYA FLAVESCENS Silk Tasselbush kin. Grey-white silky-hairy lvs. Seed when ready. 1/2 x 1/50

Ceanothus, Berberis, Calliandra, Cercidium, Ericameria, Fouquieria, Garrya, Oneoridium, Artemisia, Acacia, Artostaphylos, Chilopsis, Crossosoma, Eriodictyon, Quercus, Rhus, Salvia, Yucca, etc.

- GARRYA VEATCHII Lvs smooth, thick, shining; white wooly beneath; flrs of Gs in showy long catkins with bell-shaped bracts, late winter; large shrubs. Seed when ready.
- HELIANthemum scoparium ALDERSONII Rockrose. Tufted 18" slender stems; nearly 1" single yellow "roses" in hundreds, early summer; natural background of grey boulders brings out lovely coloring; higher country, dryish, sunny soil. Extra dainty & neat.
- HYPTIS EMORYI Desert Lavender. Medium shrub of the desert-Mint group; fragrant; light green lvs; cymes small lav. flrs near branch ends. Seed when available.
- JUNIPERUS CALIFORNICA C. Juniper. Usually remains a shrub, rounded, branched from the base; frts fall & winter most showy, large, very white bloom; nice odor. 25¢ oz.
- KRAMERIA GRAYI Low, 12" spreading, dense shrub; tiny lvs; quantities of showy little bright purple flrs with violet fragrance! All this from the desert when seed ready.
- " PARVIFOLIA IMPARATA Much like the preceding, except technical differences, of fine barbs on queer little 1-seeded pods, etc. Hard to believe these belong with beans!
- MIMULUS LONGIFLORUS LINEARIS One of the showiest of all shrub Monkeyflowers, so easy and desirable. Azalea-like apricot buff flrs. nearly hide the lvs. much of summer.
- " PUNICEUS Red Bush Monkeyflr of S. D. area; taller, lankier, but improved by pruning for denser habit. Bright to dark red flrs. not quite so large as last preceding sp.
- PENSTEMON ANTIRRHINOIDES Yellow Bush P. Rounded evergr. shrub 3-5'; tiny linear lvs.; large, fat gaping flrs. early summer. Truly bright yellow. To 5000'. Easy; sun; dry.
- " CORDIFOLIUS Climbing P. Glamoring 8' shrub, leaning in shade of other tall shrubs; showy terminal bunches scarlet flrs. summer. Good on banks. Seed offered also from a rare yellow-burnt orange form. Some might "come true".
- " TERNATUS Whorled-leaf P. 6-8' shrub with long, wandlike branches; huge terminal racemes light red tubular flrs, resembling honeysuckle; late; lvs in 3's; probably hardy.
- PINUS TORREYANA Torrey Pine. Rarest, most restricted of all pines, from a small area of S. D. Co. & a neighboring island. Picturesquely twisted in strong coastal winds, but responds rapidly to cultivation inland, becoming medium tall tree. 50¢ oz.
- PROSOPIS PUBESCENS Screwbean. Large desert shrub of dainty leaflets & racemes yellow flrs. Seed offered in pods for your fun in unwinding tight "springs" so ornamental.
- PRUNUS ERIOGYNA Desert Apricot. Early white to rose flrs; small yellowish frts 1/2" long; tall shrub, intricately woven & spiny; light green lvs. Dry location. Seed when ready.
- " ILICIFOLIA Hollyleaf Cherry. Quite hardy, grand evergreen tall rounded shrub; flrs showy white racemes; pretty 1" dark red plums-edible if you're desperate. db oz 25¢
- PURSHIA GLANDULOSA Antelope Brush. Small, near-desert shrub; small wedge lvs with 3-cleft ends; white flrs. Grows in dry soil up to 7000' & more; Seed when ready.
- RHAMNUS CROCEA Redberry. Small, densely twiggy shrub, rounded, compact; small green lvs varnished effect; bright red berries thru summer; adapts to garden conditions.
- " CROCEA ILICIFOLIA Hollyleaf Redberry. Wellknown, quite hardy ornamental; evergreen lvs duller; still more thickly covered summer with showy red berries much like holly.
- ROMNEYA COULTERII Matilija Poppy. Really a shrubby perennial, 8' high, coarse numerous stems with tough blue-green or greyish lobed lvs; spectacular 6" dia. crinkly white flrs. center-tufted with knob of yellow stamens. Resembles & even smells like a huge single rose. Fairly hardy; long-lived. A wonderful sight in bloom.
- SALVIA APIANA White Sage. Nearly white foliage, basal; long upright wands of white or pale lavender whorls, favorite for honeybees; either hot, dry soil or garden culture.
- " CLEVELANDII Fragrant Sage. Cleveland's Blue S. Only superlatives fit this small endemic shrub, very choice; not plentiful. Small wrinkled grey-green lvs; 1-3 whorls bright cornflower blue on shapely mounds, 2-4' high; all sweetly fragrant even dry.
- " VASEYI Another silvery-ld Sage from desert edge; April flrs large, frilly white in whorled spikes themselves to 18" long; basal foliage mound wrinkly lvs. Honey?
- SAMBUCUS GLAUCA Western Elder. Deciduous small tree; very hardy anywhere; big flat clusters creamy-white flrs; glaucous edible frts, either blue or white. Separate or mixed.
- SILMONDSIA CALIFORNIA Goatnut, Jajobe. Curious attractive shrub of near-desert needs; but seems adaptable for dryish hot ground. leathery oval lvs. like Manzanita, but held in pairs to one side of twigs, flrs on other; hazelnut size seeds, edible & commercially oil-valuable. Inconspicuous dioecious flrs, lvs grey-green. 10 seeds, 25¢.
- SYMPHORICARPOS MOLLIS Dwarf Snowberry. Fine little groundcover, mostly prostrate; clean looking deep green roundish lvs. with showy white berries summer-fall. Rts. 3-5l.
- TRICHOSTEMA LAMATUM Woolly Blue Curls. Neat; fragrant low shrub; many stems from base; 2-4' high; for several summer months has showy racemes of deep blue, remarkably long exerted stamens; all the lengthy inflorescence covered with dense violet wool.

HERBACEOUS PERENNIALS

- ABRONIA UMBELLATA PLANTYPHYLLA Pink Sand Verbena. Many fragrant flrs on branching prostrate stems; thick succulent lvs; grows in almost pure sand near the sea.
- AQUILEGIA TRUNCATA Columbine. Tall branched stems; red & yellow flrs; moist sh., hardy.
- ARABIS SP. possibly A. PARISHII. Rockcross. High alt. 3-4" stems of bright rose-purple flrs in early spring; lvs. densely white-hairy little tufts from branched caudex. A perfect rockgarden plant. Seed in spring; possibly a few rts then, more difficult.
- CASTILLEJA CALIFORNICA Paintbrush. Brilliant red; to 2'; dry soil; early lvs. bronze.
- " MINIATA OBLONGIFOLIA " Lovely color, pinkish-red; high elev. moist meadows.
- COREOPSIS MARITIMA Sea Dahlia. Fine, easy; 3-4" yellow, long-stemmed; ferny lvs. To 2'.
- CORETHROGYNE FILAGINIFOLIA BREVICULA Woolly Pink Aster. Most appealing color scheme in these late summer aster-like flrs. Grey-white lvs, stems; numerous pink-lavender flrs branching to 2'. This var. found among pines, dry soil of high country.
- " FILAGINIFOLIA LINIFOLIA Similar flrs; whole plant white-wooly to very petals. One of several along coast here. Will mix the two if requested. Ho&n 2-3 months! Dry.
- CUCURBITA FOETIDISSIMA Calabazilla or Perennial Gourd. Big vine covering area size of a room; upstanding coarse blue leaf triangles; 3" round frts; green-white striped. Dry.

Near 9000' in tobacco
 Gravelly shrub very bluish
 yellow tubular fls.

50¢

50¢

1.50

100 for 41

50¢

All dry soil. Delphinium yellow & discolored above ground, after flowering - now lost
 - 4 - growth with winter rains.

- DELPHINIUM CARDINALE Scarlet or Big Red D. Spectacular. Branched to 8'; fiery racemes 2-3' long June to Aug. Marvelous longlasting cutflrs; open sun; neutral soil, deep gravel, sandy loam; provide drainage to more than 1' below. No manure or fertilizer. Won't endure wet soil in summer, so in moister areas, lift & store bone dry until very early next spring (March), in prepared location. Soak shriveled rts overnight & plant crown 1-2" under surface. In West, plant early winter. Full cultural & descriptive article in July, '49 Horticulture. Seed. Dry rts. 4-50¢; 10-51; 50-43. *from Texas & Missouri*
- CAROLINIANUM 8-12" dwarf; longspurred blues to cream, loose racemes. Seed & rts 3-25¢
- CUYAMAQUE Mt. meadows; 12-18"; rich blue flrs; grayish lvs, slender div. Dry rts only.
- DECORUM Smooth L. 8-16" woodland type; sand, leaf mold; delicate longspurred flrs. of electric blues, purples; distinctive, lovely round-lobed basal lvs. Rts only, 3-25¢
- PARRYI Drier soil; culture as for D. cardinale. Brilliant large flrs blues; stems 1-2' branching in favorable soil. Seed. Dry rts. 3-25¢; 8-50¢; 20-1.00.
- PARRYI SUBGLOBOSUM From desert edge, modifying appearance; smaller, bluish lvs; 3-25¢
- TRICORNE Expected supply of this more E. sp. failed for now; by spring perhaps. *from Ohio or Mo. garden.*

SEED of DELPHINIUM best sown when temp. 40-65° for quickest germination; some spp require a winter's exposure, showing in early spring. Use sterile medium, cover & shade until sprouted, then put in light. Dry climate D's tend to go prematurely dormant when transplanted during growth; so, to save a season, best to sow in permanent place & thin.

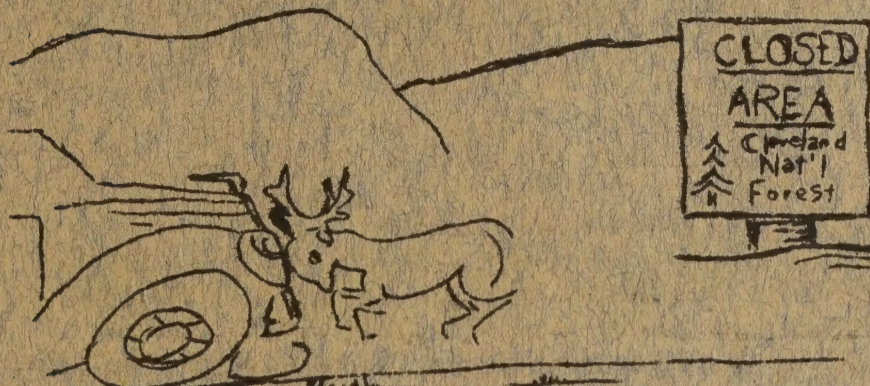
DICENTRA SHRYSANTHA Golden Bardsops. Candlelight & Silver would fit better. Lovely fine-cut silvery, basal foliage; 3-5' inflorescence many yellow narrow hearts. Seed needs patience, or your best pot methods for slow germinators. Hot or cold water help on some, soaking one to several days; then sow at once.



- DODECATHEON CLEVELANDII Shooting Stars. Old Maids' Roses. Charming earliest spring delights; very hardy; easy from summer-dormant roots; 8-12" stems bear perfumed "Birds' Bills" atop ruffly leaf rosette; white, lavenders, to bright magenta-reds, all with purple ring & yellow eyes. Soak, plant shallowly; rich, sandy. Seed. Rts. 8-25¢; 40-51.00. *Best handled by dormant but supply any time.*
- ECHINOCHLOA MACROCARPA Chilicothe. Wild Cucumber. Deeprooted vine; early whitish flrs. soft prickly frts like "Dutchman's Britches". Dark gr. palmated lvs. Big seeds, 3-10¢.
- FRAGARIA CALIFORNICA Wild Strawberry. Fine, hardy trailer; delicious 1" frts. 10 rts. 50¢.
- FRASERA PARRYI Deer's Ears. Green Gentian. Odd dry soil G. for semi-desert soil. Evergreen basal rosette, undulate white-edged lvs; branched panicle to 2' rather pretty, exceptionally interesting dull-white 4-petal flrs, black-dotted. Seed only.
- GILIA DENSIFOLIA AUSTROMONTANA Late Blue Gilia. Lovely plant of high alt. with many tufted, wiry stems, 8-12"; large dense clusters, terminal, bright sky-blue in late summer. Needs poorish dry soil, sun, for best color and to keep dwarf.
- DENSIFOLIA ELONGATA Similar to above; lower alt.; dry, sandier soil; a little taller average 16"; slightly lighter blue; clusters partly lateral; bracts more white-wooly.
- FLORIBUNDA (LEPTODACTYLON NUTTALLII) 8" neat tufts numerous stems, hidden by early large white flrs, yellow throat, huge fragrant clusters; rich, dryish soil, above 5500'.
- HEPEROCYCOA HIPPLEI Our Lord's Candle. Always showy; dense basal rosette narrow, bluish lvs; 8-12' firing stem hung halfway down with large, sweet white "lilies."
- HEUCHERA BREVISTAMINA Alumroot. 6000' exposed rock cliffs; neat small basal lvs; 8" stems June-July pink-purple flrs. A hard climb & dangerous, but worthwhile. Rts only, 3-50¢.
- IRIS MISSOURIENSIS Moist sunny mt. meadows above 4500'. Appearance of sp. found here differs somewhat from Montana's; dwarfier plant, relatively larger flrs; pale blue and showy, petals veined darker. White said to occur. Dry pods decorative, mahogany.
- LINUM LEISII Blue Flax. Desirable, hardy; from high mts; 12-18"; tufted slender stems; smooth, bluish lvs; flrs light blue, vainy, 1" dia., numerous. Seed, 20¢ & rts. 3-50¢
- MIULUS CARDINALIS Branched leafy; moist soil monkeyflr; 18"; large vermilion flrs.
- MONARDELLA LINCIDES Tufted 12-15" dry soil; many pale lavender hds; silvery stems.
- MACRANTHA One of most desired of dwarf evergreen rockery plants; hardy; light shade or open; sandy leaf soil; fragrant mat of lvs; large July scarlet flr hds. 20¢; rts 3-50¢
- EMMA This has similar lvs; sunny; pale pink flrs June, showy whitish bracts. 20¢; 3-50¢
- NOLINA MIXTURE Desert plants of Yucca kin; tall stems; small, numerous whitish flrs.
- PAEONIA BROWNII Western P. Hardy; nice foliage; brown-red single flrs. Seed, & rts. 25¢ ea.
- PENSTEMON ANTIQUINOIDES Yellow Bush P. See under Trees & Shrubs. To 5000'. S; rts 3-50¢
- BRIDGESII Pine P. Neatly tufted; 1-2'; narrow gr. lvs; 2-lipped scarlet flrs, racemes; light shade in high elevation, fairly rich soil. Also have seed of lovely color variations in one colony; pale yellow-pinkish tinged; rose; apricot; etc. S. both; rts. 3-50¢
- CENTRANTHIFOLIUS Scarlet Bueler. Easy for dry hot soil; known to be adaptable like one above; racemes bright red tubular, contrast with thick, grey-blue lvs. 2-4'
- CLEVELANDII Green or glaucous lvs; thick; a little like those of P. SPECTABILIS; numerous stems, 15-18"; racemes of pink-purple 1" tubular-funnel form; sun; to nearly 6000'.
- CORDIFOLIUS Climbing P. See under Trees & Shrubs. Yellow-orange form seed also.
- HETEROPHYLLUS Foothill P. Blue P. Find much higher elev; much tufted, linear lvs; about 1'; neat, quite hardy; sun; dry; bright blues & variations. Seed; small plts, 3-25¢.
- LABRUSCUS Scarlet P. High alt. light shade among pines; very hardy; shiny green lvs, mostly basal; hugky 2-4' stems; strongly 2-lipped big showy flrs, clear, bright coral-red. Late bloomer, just before BRIDGESII-summer. Seed & easily grown plants, 3-50¢.

PENSTEMON SPECTABILIS Showy P. Blue P. This is a big, bold many-stemmed plant, 3-6'; thick, bluish lvs. below huge spikes large brilliant flrs, broadly inflated, nearly 1" long; striking combination often of blue & purple; various alt.; sun; hardy.

" **TERNATUS** Whorledleaf Bush P. See Trees & Shrubs. Color in open high alt. burnt-orange.



The AMERICAN PENSTEMON SOCIETY recently formed, is actively working toward the taming of the 244 species for all climatic conditions. Their informal Bulletins full of helpful cultural ideas. Ask Emil Priest, Treasurer, Peru, Iowa.



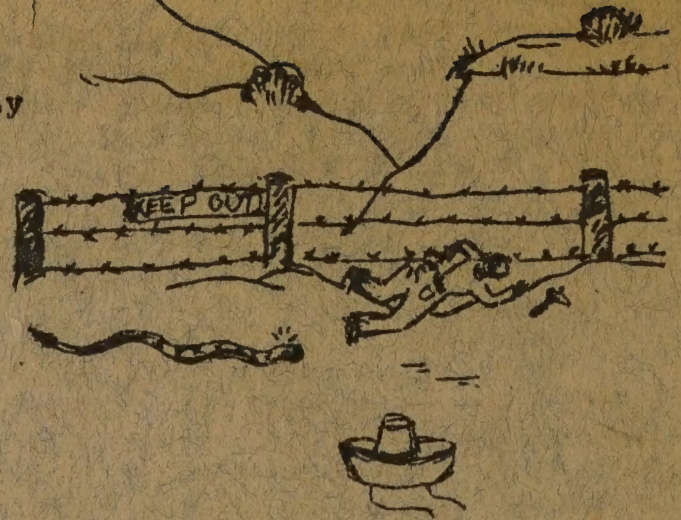
- PHLOX DOUGLASSII AUSTRICONTANA** Evergr. mats prickly; large pink-toned flrs. Hardy. Rts. only.
- RANUNCULUS CALIFORNICA** Calif. Buttercup. Showy nearly 1" flrs, 10 petals. 12-16". Early.
- SALVIA SONCHIENSIS** Creeping Sage. Rare desirable dwarf evergreen from over 5000'; tufts wrinkled grey-green lvs along prostrate woody branches; May-June showy whorls blue flrs, somewhat fringed, on naked 8-10" stems. Wide mats; sun, light shade. S., good rooted div. 3-50¢
- SILENE LACINIATA** Fringed Pink. Fiery red fringed flrs; spreading 1-3'. Light shade, leafa.
- SISYRINCHIUM BELLUM** Blue-eyed Grass. A spring beauty massed on grassy slopes; neatly tufted 12" bluish lvs; varied blues to white, yellow eye. Seed & rts., 6-50¢. Very easy.
- VIOLA DOUGLASSII (CHRYSANTHA)** Hardy yellow Violet, high mt. meadows; good in East; dbea down after spring flring as soil dries here; beautiful ferny lvs, bluish grey. S. Rts. 3-50¢
- " **LOBATA & VAR. INTEGRIFOLIA** Pine V. Dryish woods, high alt.; hardy; leathery lvs, either entire, heart-shaped, or variously lobed. Yellow flrs in axils. Rts. only, now, 3-50¢.
- " **PEDUNCULATA** Pansy V. Favorite here, if it had only strong fragrance alone; big, round orange-yellow flrs; purple center, on straight stems to 6-8"! Neat triangular lvs, make rapid early growth, vine-like, prostrate, from deep rootstock. Needs dry summer rest, disappearing above ground. Protect in pots, etc. colder areas. Seed, 20¢; dormant rts 3-50¢
- " **PURPUREA** Mt. V. From cold high country; sun or shade; leaf soil; yellow flrs, purple reverse upper petals; foliage green, entire, in exposure, grey-glaucous. Plenty seed.
- YUCCA MOHAVENSIS** Mojave Y. Usually basal stiff lvs; tremendous, dense, white-purplish flrs.
- ZAUSCHNERIA CALIFORNICA** Calif. Fuchsia. Hummingbird Trumpet. Grand fall-blooming, several mos; dry sun or shade; perfect for banks; hardy; 16-20"; many stems, grey-green.
- " **LATIFOLIA** This is my most desirable form, from high alt. More dwarf, 8-12", wider gr. lvs; for scarlet showy flrs from Sept. thru November; very easy. Seed. Rts. 3-25¢.
- " **MIXTURE** Seed of 4 kinds, ready by Dec. Differ only in leaf form, color, stature. 20¢.

NATIVE BULBS : : ROCKGARDEN NATURALS.

- ALLIUM HAEMATOCOMITON** Clustered bulbs of shiny red, occasionally lighter; stems average 10-12"; rose flrs with darker midrib, upright, numerous. Seed, 20¢. Bulbs, 35¢ doz.
- " **PENINSULARE** Of the 6-8 Alliums found, this one leads all for extra beautiful color & form of flrs: deep rose-purple, inner petals slightly darker, crisped; large umbels atop 8-12" stems, not clustered. Rich sandy soil, sun or shade. Seed, 20¢; bulbs, 6-25¢.
- " **PRÆCOX** Taller, 15-20"; large umbels white flrs, purple midvein. Bulbs only, 6-25¢.
- BLOOMERIA CLEVELANDII** Miniature of next, Golden Stars. Similar golden flrs, striped outside with brown; several narrow lvs. Average 6-10" high. Bulbs only now, 6-25¢.
- " **ORGEA** Golden Stars. Huge, showy umbels wide, bright flrs, on wiry stems 15-18", after one leaf ripens; hardy, but mulch or grow in pots where temp. below 15°. Plant about 3" deep. Bulbs, 6-25¢. Good lot of 2d & 3rd blooming-size bulbs, 15 for 25¢.
- BRODIAEA CAPITATA** Blue Dicks, Wild Hyacinth. Over most of Calif.; hardy; wiry, long stems of densely clustered flr hds, lovely blend blues, fine cut flrs. To 20". Bulbs, 6-25¢.
- " **ORCUTTII** S. D. Co. endemic; 8-12" stems; open umbels 1" deep blue flrs, str. purple; 6-25¢.
- CALOCHORTUS ALBUS** White Fairy Lantern. Globe-shaped satin puffballs, often pinkish veins branched stems to 18", many nodding flrs; shaded woodlands. Plant all O's 3-4" deep. Seed.
- " **CONCOLOR** Golden Bowl Mariposa. My finest. Glorious big light yellow, over 3" dia., usually 1-2 purple bands near petal base, with a few hairs; husky stems, 6-18" high; high elevation, sun. Early leaf blue-green. A grand hardy Butterfly Tulip. Seed. Fear time will not allow this fall to offer bulbs; possibly a few 3-25¢.
- " **SPLENDENS (DAVIDSONIANUS)** Clear lavender Mariposa, graceful vase-shaped, flaring, usually with purple spot & gland at petal base; tall branched stems; early. Seed, 3, 3-25¢
- " **WEDDII** Fringed Mariposa. Unusually hairy all over inside & edges; large orange-yellow, with penciling & sometimes wide bands of brown; wiry, much branched tall stems, 1-2'; flrs, showy, interesting, 2-3" dia. cup-shaped, or flared. Later season. Seed.
- " **MIXTURE**: 20¢ pkt, to 1 for 1oz; \$1.75 for 1oz. Plant all O's 3" deep; mulch N.
- JEPSONIA (SAXIFRAGA) PARRYI** Interesting little Sax. blooming in late fall, Oct-Dec., after pretty basal lvs. have disappeared. Purple-striped white flrs., stems to 6". Reports of several trials are good, various areas. Plant bulbs 1-2" deep. 6-25¢; doz. 40¢.
- LILIUM BLOOMERIANUM** Our S. D. Co. form of L. Humboldtii, said to be fine, easily handled like L. MAGNIFICUM; reddish-orange flrs, darker blended spots, nodding, 3-5' tall; usually 1 to 3 flrs. to a stalk of whorled clean lvs. up stems. Needs light shade & dryish, sandy leaf soil or loam; hardy, but mulch with lvs. bulbs 5-6" deep. Seed, 20¢
- Possibly a few bulbs, if time allows by Dec., each 50¢.
- MULLIA MARITIMA** Cute little 4-10" early spring bulb, fragrant white flrs. Seed 20¢ & Bulbs, 6-25¢.

ANNUALS

ANTIRRHINUM FILIPES Climbing Snapdragon. Dainty little threadlike vine, branched to 2', from desert; stems strung with bright yellow 1" flrs; cute for sunny hanging basket.



ARGEMONE PLATYGERAS HISPIDA Prickly Poppy.

Most showy plant 2-3' tall, with blue-green thistle lvs; flrs are crinkly white, yellow tufted, 3-4" dia.; very like a small Matilija Poppy. Hot sun, loose soil.

BAERIA GRACILIS Goldfields. Neat little spring daisy for massing. Mix with blue annuals, like *Phacelia viscida*; 4-8".

CHAENACTIS LABRUSCULA Pincushions. Like a small yellow Scabiosa; ferny lvs.; branched to 15". Best in dryish, sandy or gravelly soil, hot sun. Cuts well, too.

COLLINSIA BICOLOR Chinese Houses. Showy favorite for light shade, as woodland edges; rich, light soil; tiers odd snapdragon-like flrs, upper lip nearly white, lower purple.

CUCURBITA PALMATA Coyote Melon. Desert Gourd. Lovely star-shaped lvs, grey to bluish, conspicuously veined white; round 2 1/2" green-white striped frts. Hot sandy soil.

CRYPTANTHA INTERMEDIA Popcorn Flr. Snowy, branched racemes, 4-8", sweet forget-me-nots.

" **MICRANTHA LEPIDA** Still daintier, neater high alt. dwarf, 3-5". You'll love this.

DATURA METEKLIDES Toluache. Wonderful fragrance at night if you put a newly opening flr in water; purplish-white trumpets; soft grey lvs; spreading, or tall with water.

DOWNINGIA IMMACULATA Dwarf Lobelia kin; 3-5"; in masses has effect of Eastern "Quaker Ladies"; sky-blue, yellow white eyes; perfect for edging; sow in cool, "meadow" soil.

EMMENANTHE PENDULIFLORA Whispering Bells. This pretty name is "fittin"; nodding, pale yellow everlasting flrs in hundreds; to 15", branched. Cut while fresh for drying.

ERIOPHYLLUM WALLACEI RUBELLUM 1-3" dwarf; white-wooly lvs nearly hidden by numerous & showy white, pink-tinged daisies; cute cousin of "Oregon Sunshine". In sun at 6000'.

ERYTHRAEA VENUSTA Pink Gentian. 1" wide, salver-shaped rose-pink flrs; white eye; 8-12" branched; good outflr; much like Eastern Sabbathia. Choice; light soil & sun; masses.

GILIA CARBIFOLIA Much branched to 20"; clouds of airy light blue flrs, manner of Baby's breath; never seedy looking; long season; sun; good mixer; different Gilia, high alt.

" **DIANTHOIDES** Fringed Gilia; Delicately beautiful dwarf; exquisite 1" fringed, pink flrs hide tiny lvs & stems, 2-6". Advance orders took most-but small pkts, 20%.

LAYIA PLATYGLOSSA Tidytips. A favorite; 8-18"; branching; light yellow, coreopsis-like flrs with white tips, most dainty coloring. Sunny, sandy loam.

MENTZELIA INVOLUCRATA Desert Blazing Star. Hot sun; dry soil; conspicuous bone-white stems; flaring straw-yellow flrs 1 1/2" long, with white bracts; to 16". Seed in spring.

LILIULUS BREVIPES Huge, bright yellow Monkey flrs, showy; to 18", branched. Sun; sandy soil.

" **FREMONTII** Much tufted, rather dwarf, 8", but also large, showy rose-red flrs.

" **SPP.** Two others found only in seed, high mt. mds; dwarf. Yellow? Pink? Red? Mixed.

MCHAVEA CONFERTIFLORA Ghostflr. One of the oddest in shape, quite pretty; cream-yellow, finely dotted with purple, 1 1/2" long, small tube below 2 showy erect lips; 3-15" tall, sometimes branched; flrs in dense spikes. Seed in spring from the desert.

MONARDELLA LANCEOLATA Mustang Mint. Nicely fragrant, rather dainty to 13", branched near top; rose-purple or lavender flrs, numerous small heads. Sunny, light soil.

MONOPTILON BELLIOIDES Desert Star. Spread flat on ground, 4" wide mat; numerous showy white to pinkish flrs, daisy-like. True dwarf; needs very sandy, dry soil; sun.

CENOTHERA DEITOIDES Desert Primrose. Devil's lantern. One of the showiest of all Evening Primroses. Most peculiar in its youth-age change. Soft, low grey-green foliage under enormous, fragrant white flrs, delicate, 3" wide. Stems elongate from center tuft, and when drying, bend upward until tips meet, forming queer basket or lantern, then woody! (Put the flrs' whiteness my guide during total moon eclipse).

PHACELIA VISCIDA Many Phacelias, but this is nice medium one, rich blue with white center, coiled racemes numerous; does better in sandy, rather barren soil; over 3-12".

SALVIA COLUMBARIAE Chia. A showy 10-18" basal lvs Sage; bright blue whorled flrs; exceptionally pretty lvs, much divided, bluish-green, wrinkled. Poorish, sandy soil.

COLLECTOR'S LUCK MIX. (Hard) 20%. **COLLECTOR'S LUCK MIX.** (Average) Similar. 20%.

FERNS

ADIANTUM MARGINATUM Calif. Maidenhair. Graceful & dainty. Moisture; shade.

CHEILANTHES CALIFORNICA Lacefern. Dainty favorite; small; rich, light shade; mod. moist.

CHEILANTHES CLEVELANDII A little taller, for slightly drier soil than the last; sun or light shade; neat "green beads on wire" look.

" **COVILLEI** Similar; found still drier habitat, desert edge; 6000'.

" **VISCIDA** Extra dainty, slender, sticky fronds, numerous & tufted; light shade, as under boulders. Limited amt. available.

DRYOPTERIS ARGUTA Taller, woodland fern; evergreen; rich soil, shade.

NOTHOLAENA CALIFORNICA Very small, lovely detail; waxy substance beneath, whitish; triangular-shaped dull green fronds; shade; dry.

NOTHOLAENA FERRISSII Cotton Fern. Grey-white all over; pretty tufts 3-6"; drish soil, sun or shade; squeeze rts. between rocks.

" **PARRYI** Smaller, 2-5"; more loosely woolly than the last; pretty.

" **CANDIDA** May have this diminutive N., said found only in S.D. Co. Please express interest, in case it shows up this winter.



variaccessita

Pilea compacta - pin pett
Blechnum sp. - small
Pilea sp. - small

- OPHIOGLOSSUM CALIFORNICUM Adderstongue Fern. Gnome of fern world; stays out of sight except earliest spring. Fronds usually in pairs, 1-3" long; sterile fleshy leafblade, simple; fertile spike arises from its base, with 2-ranked spores. This tip always reminds me more of the opposite end of a rattlesnake in miniature. Underground buds, on sort of endless chain an inch below surface, take it easy most of the year. Found in slight "run-off" depressions of grassy meads, where sandy soil is wet until late spring. Casual appearance more of a little orchid than a fern, when lvs. show.
- PELLAEA ANDROMEDAIFOLIA Coffee Fern. Endures some Eastern winters where well-drained on rockwall, etc.; grand for large pots, too; neat fronds average 1', of dark green oval segments rolled under. Occasionally fronds coppery. Leafmold, sand, aver. moisture.
- " MUCRONATA Birdfoot Fern. Bluish or grey-green neat fronds with narrow rolled under segments in 3's; medium tall, thickly tufted, 6-10". Sun, dry soil best.
- PITYROGRANNA TRIANGULARIS Gold Fern. Easy one for sun or light shade, varying in height to 9". Smooth green above, yellow powdery beneath.
- " TRIANGULARIS VISCOSEA Silver Fern. Of S. D. Co. region & my favorite fern; clean-looking dark green, sticky above, fragrant; white powdery beneath. Triangle-shaped fronds much divided with rounded lobes. Very light shade; leafmold & sand.
- " TRIANGULARIS PALLIDA Fern from along border area, So. S. D. Co. Light shade, similar soil, but less moisture. Light green above with creamy wax partially covering segments and rachis. Powder beneath variable, greyish or yellowish, or absent. All the Gold & Silver Ferns easily transplanted, as roots seldom found between rock crevices, but close to shaded base of boulders or trunks small shrubs, steep banks.
- POLYPODIUM CALIFORNICUM A pretty Polypody of more delicate texture than most of them, deciduous when resting here in summer; average moisture, light shade, sandy leafsoil.
- " CALIFORNICUM "CRISTATE FORM". Much slashed, frilly fronds; often quite freakish; always highly attractive. Occasional colony found with type. Both ca 6-12", dense.
- POLYSTICHUM MUNITUM ILLINOENSE This Sword Fern is quite scarce as yet, quite rare in my collecting area. Usually above 6000'; mine in bottom of rocky mt. - top dry wash. Said found in lightly shaded rocky canyons, when 12-20" tall; peculiar oblique "shingling" of pinnae; stiffly erect & evergreen. At present, 50¢ each.

All ferns 3-50¢ except the last, as noted, and Adderstongue, 3-25¢ or 7-50¢. Sent when available, and in order of first requests. Trials are being made in various climates for hardiness, moisture tolerance, etc. All do well in pots for indoors or patio, if you have no rockpile or dry wall. Most like their rts. tightly cramped. Like other natives from here, some have success at Boston, etc. with low altitude types; while others report failure with really hardy ferns, such as Eastern-*leptocarpus* & *pedatum*!



NATIVE ELSEWHERE

- ACACIA BAILEYANA Small tree; blue leaflets; early fragrant yellow flr balls, 4" racemes.
- ANTHERICUM RALIOSUM Tuberos rootd lily cousin, 2' branched stems, loose racemes of small white flrs; basal lvs, narrow, ribbon-like. Temp. outdoors or pot specimen.
- ARAUJIA SERICOPERA Silkvine. Rapid everg. vine; 1" fragrant, white flrs. Hardy to 15°.
- CALLISTEMON RIGIDUS Bottlebrush. Hardy; stiff, narrow lvs; terminal red racemes.
- CAMELLIA JAPONICA Valuable hybrids result from seed. From good varieties. 6 seeds, 25¢.
- MESPERALCE PARVIFLORA Red Yucca. Multiplies fast; numerous flr stems, reddish, from 1 plant, to 4'; rose-red nodding flrs over 1" long. Only red-flrd Yucca.
- IRIS DICHOTOMA Vesper Iris. Quickest from seed; flrs often first season; fragrant, purplish blond. Also a late bloomer, as well as opening late in the day.
- " TECTORUM ALBA Bare white form of Roof I. Considered more beautiful than type. To 1'.
- MELALEUCA SP. (Prob. I. DECUSSATA) Much like Bottlebrush; round 1" fluffy lav. flrs; 1" lvs.
- PAPAVER NUDICAULE Iceland Poppy. 1' perennial; long-stemmed 3" fragrant flrs. Yellow, pink, et
- PARKINSONIA ACULEATA Palo Verde from Ariz; taller tree than ours; longer lvs. & racemes.
- PASSIFLORA EDULIS Purple egg-size Passion frts. edible. Ornamental large vine, perenni- al; shining lobed lvs. light green; bears over long season when outdoors, temp. climate.
- PLUMBAGO CAPENSIS Blue Cape Plumbago. Clambering shrub, almost everblooming; deservedly popular. Grows well & rapidly from seed; flrs while small, in pots too.
- SUCCULENT MIXTURE Numerous good kinds, native & others. 50¢ pkt. or 3.50 oz.

M. mesophila



Collector-Distributor: Mrs. E. W. Cisler, 1777 Morena Blvd., San Diego 10, Calif.

ADDITIONAL ITEMS : : : USUAL PRICES.

- ADOLPHIA CALIFORNICA Endemic shrub, Ceanothus kin; prs. branches right angles; white flrs.
- AROTOSTAPHYLOS OTAYENSIS " Manzanita; very local; white flrs Dec.-Mar. 1950 seed possible.
- BELCOPERONE CALIFORNICA Low interlaced, smooth shrub, pale green; red flrs. " " "
- BERBERIS DICTYOTA (p.2) Can fill '50 seed orders, if crop made; also good rooted layers.
- " NEVINII Distinctive rare Barberry; red frts summer; narrow, grey-green lvs. '50 seed.
- CEANOTHUS AUSTRORONTANUS (p.2) Ask for '50 crop seed of this choice wall, rockgarden C.
- " CUNEATUS Buck-brush. Rigid shrub to 12'; flat, entire, spatulate lvs., white flrs. '50 S.
- " CYANEUS S.D. Lilac. Rare in wild; most used; tall; long panicles deep blue, May, June.
- " MEGACARPUS Bigpod C. Much like my C. VERRUCOSUS; clouds white along branches by Dec.
- " PERPLEXANS So. Desert L. High elev. bordering desert; concave lvs.; white, pinkish flrs.
- CERCIS OCCIDENTALIS Redbud. (p.2) Strain from S.D.Co. flrs earlier at Santa Ana Bot. Garden.
- DALEA MOLLIS var. MOLLISSIMA Very hairy perennial; 12" decumbent stems; pinkish-white flrs.
- " SPINOSA Smoke Tree. Palo Blanco. Large desert shrub, nearly leafless; pale slender misty-looking branches all yr; June flrs. purple, in dense spikes, 1950 seed possible.
- LARREA DIVARICATA (TRIDENTATA) Creosote Bush. Evergreen desert shrub; boxwood-like lvs. dark green, neat; pretty yellow flrs. singly among those, Apr.-June. '49 seed, to tr. pkt.
- LITHOPHRAGMA AFFINIS Woodland Star. Dainty Saxifrage kin; 3/4" lacy, white flrs. Seed, rts.
- PINUS CEMBROIDES MONOPHYLLA 1-needle Pinyon. Low tree, high alt. dry mt. slopes. '50 seed.
- " " PARRYANA (QUADRIFOLIA) Still dryer high slopes, about 5000'. Only advance orders.
- SAXIFRAGA CALIFORNICA Early spring rosettes, 8" aver. white flr stems. Roots only.
- SYMPHORICARPOS ROTUNDIFOLIUS Mt. Snowberry. Prostrate ideal bank cover; above 5000'. '50 S.
- HAKEA LAURINA; H. SUAVEOLENS; MELALEUCA NESOPHILA; Seeds on order. (non-native here).
- ANTHOXANTHUM ODORATUM Sweet Grass. Glad to again offer 1950 crop seed of this most popular item, first listed from the Smoky Mts. 20¢ pkts. only, ready from June. Moist soil.
- DICENTRA EXIMIA; ASOLEPIAS TUBEROSA; LOBELIA CARDINALIS; L. SYPHILITICA; GLEOME "PINK QUEEN".
- HARRISIA SP. Extra desirable night-blooming Cereus kin; twining; fragrant 8" funnels. '49 S.
- GENTIANA ANDREWSII Bottle Gentian. Eastern showy border perennial; big blue flrs. '49 S.
- ABRONIA VILLOSA Desert Sand Verbena. See p. 6, under Annuals. 1950 crop seed.

GOOD NATIVE SUCCULENTS

- DUDLEYA ABRAMSII Rare, miniature found in cliff crevices of exposed heights 5-6000'. Bluish-grey rosettes narrow lvs. to 1"; 1-4" stems yellow flrs, striped red. 3-50¢. Seed.
 - " LANCEOLATA Much variation in coloring of narrow, pointed lvs., rosettes ca. 6": greyish, glaucous, or iridescent; reddish flrs, tall stems. 25¢ each, or seed.
 - " LANCEOLATA var. ALOIDES Much smaller; more densely clustered grey-white rosettes; stems ca. 8" with greenish-yellow flrs. .50¢ cluster. Little seed.
 - " PULVERULENTA Chalk Lettuce. Showiest of our Dudleyas; big 10" white-mealy rosettes lvs broader toward tips; tall stems red flrs. smaller lvs. all white-mealy, S. & 50¢ each.
 - ECHINOCACTUS (FEROCACTUS) VIRIDESCENS S. D. Barrel Cactus. Yellowish flrs. Roundish, to 8" S.
 - " ACANTHODES Barrel C. Stout spines of both vary in pretty color. Desert; to 6'.
 - MAMILLARIA DIOICA Pincushion C. Neat, small clusters to 8"; cherry red frts. 50¢ cluster.
 - OPUNTIA BASILARIS Beavertail. Showy magenta flrs April; pinkish lavender pads branched only from base; short brown glochid tufts make beautiful coloring. Selected pads, 50¢.
 - STYLOPHYLLUM EDULE Pencil-shaped smooth, green lvs. 5" long, red-tipped; Seed & 50¢ each.
- FERNS: PELLAEA COMPACTA Smaller, bluer than its close kin, P. MUCRONATA; twice pinnate. 3-50¢
- PLATYCERIUM BIFURCATUM Staghorn Fern. Striking, large drooping, forked fronds to 3'; outdoors, temperate climates, or cool greenhouse; moist air; epiphytic. Spores.

NOTE: Where dormant '49 roots are sold out, must fill new orders from semi-dormant plants, packed in damp moss. One may care for them in temporary quarters and containers, transplanting early without disturbing. This may cause premature dormancy, but do not think, as many do, that they are dead. Early rains followed by weeks of mild days last Nov-Dec. caused too quick awakening of even highest elevation delphiniums, bulbs, etc.; now checked by month of severe cold and snows. However, rapid development in late winter here makes shipping risky for things with tender tops, often heating or worse. Spring here is often your winter. YOU must be judge of planting time, I for shipping. Suggest you try part of seeds or roots in late fall (winter), the rest in spring, remembering some will appear at their best when more adapted, during second season. If desired, money will be refunded on anything not obtainable within reasonable period.

CASH included with all first orders, or until credit established; others within 10 days. Please return postage at once to save writing and extra paper work; stamps acceptable. Seed list of separately named SUCCULENTS native elsewhere, send 10¢ and stamped, addressed envelope.

WHOLESALE ORDERS & QUOTATIONS for 1950 crop, (or 1949 seeds still on hand), accepted from this complete listing. Advance orders get the best attention, so send your want list just as early as possible. Please do not order from older lists. Much care is used in handling and packing, and my responsibility ends there. Kindly notify me within one week of receiving shipment if any adjustment or complaint is due. Only straight-forward dealing both ways is desired. GOODWILL with GOOD SERVICE count.

Remember: "They're cheaper by the dozen!"



Mrs. E. W. Cisler,
1777 Morena Blvd.,
San Diego 10, Calif.

LLA. CALIF. (3)



Ralph R. Shaw, Librarian,
U. S. Dept. of Agriculture,
Washington 25, D. C.

LIBRARY
RECEIVED
★ MAR 23 1950
U. S. Department of Agriculture